Special Issue

Antimicrobial Resistance: Genetic Mechanisms, Emerging Trends, and Pathogen Risks in Food Safety

Message from the Guest Editors

This Special Issue aims to explore the genetic mechanisms of antimicrobial resistance, monitor emerging trends in resistant pathogens, and assess their risks in food safety to inform effective mitigation strategies and promote public health. All original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Genetic mechanisms of antimicrobial resistance.
- Understanding resistance genes, mutation processes, and horizontal gene transfer. Emerging trends in antimicrobial resistance.
- Monitoring resistant bacteria in food production and food supply chains. Pathogen risks in food safety.
- Evaluating the impact of resistant foodborne pathogens on public health. Antibiotic use and regulation.
- Studying the role of antibiotics in agriculture and developing appropriate regulatory strategies. Preventive and mitigation strategies.
- Designing interventions to reduce the spread of resistant pathogens. Surveillance and detection methods.
- Advancing techniques for early detection and tracking of AMR in food systems.

I look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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